


ENGINE CONTROL DEVICE

Patent number: JP9303179
Publication date: 1997-11-25
Inventor: HOSOYA HAJIME; KAI YUKIMASA
Applicant: UNISIA JECS CORP.; NISSAN MOTOR CO LTD
Classification:
 - international: F02D41/14; F02D41/02; F02D41/04; F02D43/00; F02M25/07
 - european:
Application number: JP19960119152 19960514
Priority number(s):

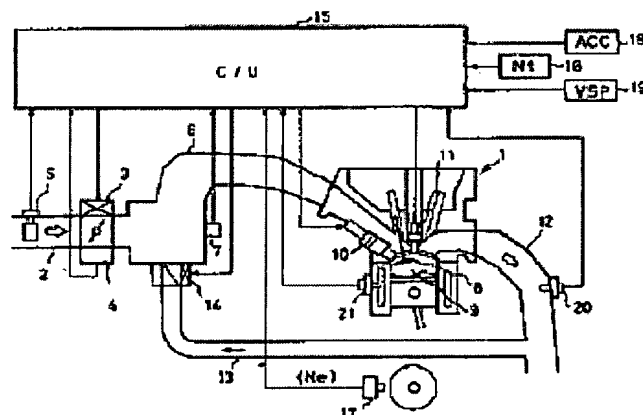
Also published as:

 JP9303179 (A)

Abstract of JP9303179

PROBLEM TO BE SOLVED: To most suitably control in good balance fuel consumption, exhaust and operating properties, by effectively controlling a throttle opening, air-fuel ratio and EGR, and correcting particularly target air-fuel ratio, which is a base of throttle opening and air-fuel ratio control, by an EGR rate and in- exhaust oxygen concentration.

SOLUTION: In a control unit 15 inputting a detection signal of a throttle sensor 4, air flow meter 5, accelerator sensor 16, crank angle sensor 17, car speed sensor 19, etc., first, based on an accelerator opening and a car speed, target engine torque is calculated. Based on the target engine torque, first target air-fuel ratio is calculated, based on an EGR rate, second target air-fuel ratio is calculated. Next, based on a target fuel amount and the second target air-fuel ratio, a target air amount of an engine is calculated, based thereon, a target throttle opening is calculated. Based on an actual air amount controlled by an electric controlled throttle valve 3 and the second target air-fuel ratio, a basic fuel injection amount is calculated.



Data supplied from the **esp@cenet** database - Patent Abstracts of Japan